

## TITAN PLUS

### SCALE REMOVAL & DISSOLUTION AID

**TITAN PLUS** is a low-foaming, high alkali liquid chelate formulation designed for use in circulation procedures requiring the removal of scale deposits from lines, tanks or other industrial equipment including heat exchangers.

The added surfactant in **TITAN PLUS** promotes foulant removal, rapid surface wetting, and uniform surface reaction to provide optimum dissolution and removal of even tough scale deposits.

### FEATURES & BENEFITS

- Strong chelate formulation
- Low foaming
- Mild odour
- Contains added surfactant for uniform surface wetting
- May be effectively mixed with 2-3 % w/v of sodium hydroxide to maintain solution pH
- Effective at ambient temperatures
- Promotes no scale reprecipitation or re-deposition versus common acid treatment methods



### DIRECTIONS FOR USE

#### Area of application

Interior of tanks, vessels, lines, or equipment containing scale deposits composed of calcium, magnesium, or iron.

#### Contamination to be removed

Calcium sulfate, calcium carbonate, calcium phosphate, calcium oxalate and other scales containing calcium, magnesium, or iron.

#### Use procedure

Use **TITAN PLUS** as part of a circulation procedure.

#### Concentration

For optimum results, use at a 30-35% v/v dilution and add 2-3% w/w sodium hydroxide, where necessary or required, to keep pH within 14 during use.

#### Use temperature

Ambient up to 50°C. Higher temperatures are not required.

#### Dwell time / Operation time

Dependent on job, site, and method of application. Dwell time may vary from 6 to 8 hours depending on depth of foulant, degree of contamination, and type of scale accumulation.

# TITAN PLUS

SCALE REMOVAL & DISSOLUTION AID

## PHYSICAL PROPERTIES

Appearance	Clear, tan liquid
Odour	Detergent
Specific gravity @ 20 °C	1.245-1.255
Viscosity	Not available
pH	12.5-13.5
Flash point (TCC)	None
Water solubility	Complete
Freezing point	Approx. -15°C (5°F)
Boiling point	Approx. 100°C (212°F)
Foaming tendency	Nil
Rinsing	Excellent

## INCOMPATIBILITY

Strong oxidizing materials, acids, amphoteric or light metals

## WAREHOUSING PRECAUTIONS

Keep containers tightly closed away from direct sunlight in a dry, cool and well-ventilated place

## AVAILABLE SIZES

			
		205L	1000L

## IMPORTANT

Before using **TITAN PLUS**, always be sure to read and follow precautions and directions for use appearing on the product's container label, and on the safety data sheet (S.D.S).

## FIRST AID MEASURES

### Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

### Inhalation

Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

## PERSONAL PROTECTION



WHMIS



### MONTREAL

10,900 rue Secant  
Anjou, QC H1J 1S5  
Tel.: 514-355-4660  
Toll free : 1 800-361-8927

### EDMONTON

11411-160 Street  
Edmonton, Alberta T5M 3T7  
Tel.: 780-454-3919  
Toll free : 1 866-454-3919